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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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OFFICE OF PETITIONS

Applicants: K. V. Ramanathan et al.)
 Patent No.: 5,948,176)
 Issued: September 7, 1999)
 Title: Cadmium-Free Junction Fabrication) Atty. Dkt. No. NREL-97-10
 Process for CuInSe₂ Thin Film Solar)
 Cells)

PAYMENT OF DEFICIENCY AUTHORIZATION

Mail Stop M Correspondence
 Director of the USPTO
 P.O. Box 1450
 Alexandria, VA 22313-1450

Attn: D. Allen / Maintenance Fee Branch

This Payment of Deficiency Authorization is being submitted concurrent with an Entity Status Change Request, which requests that the status as a small entity for the above-referenced U.S. patent be removed in accordance with 37 C.F.R. § 1.28(c).

It is requested that the USPTO charge Applicant's Deposit Account No. 14-0460, in the total amount of \$2,055.00. As shown in the chart below, this is the sum of the deficiency between the amount paid for the third maintenance fee (12 payment year) and the amount still due, which is \$2055, pursuant to the loss of entitlement to small entity status.

Filing Date of Original Fee	Type of Fee Paid	Current Fee Amount (as a large entity)	Amount Originally Paid	Deficiency (based on current fee amount)
September 29, 1997	12 Payment Yr	\$4110	\$2055	\$2055

TOTAL \$2,055

The USPTO is authorized to charge Applicant's Deposit Account for any under payment required in this matter. The signatory below is a proper signatory under 37 C.F.R. § 1.33(b).

Respectfully submitted,

[Signature]
 John C. Stolpa, Reg. No. 57,632
 Attorney for Applicants

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01 FC:1599 2055.00 DA

Dated: February 2, 2011

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